

Antenna Specifications Justification

Model Number: 253K587500

FCC ID: Q7Y-253K58750X

IC: 10646A-253K58750X

Applicant: CAE Healthcare, Inc.

Date: September 24, 2025

Purpose

This document supports the FCC certification process for the referenced product by providing justification for the antenna specifications.

Antenna Description:

- **Antenna Part Number:** Elevate Healthcare, PN 205K580800
- **Antenna Type:** PCB trace antenna
- **Location:** The antenna is mounted internally in the device, as shown in exploded view section of Figure 1.

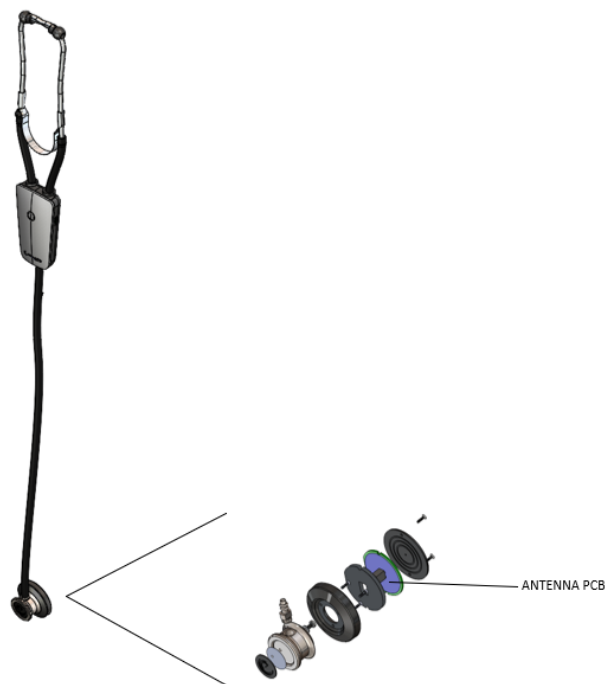


Figure 1 - Antenna PCB Location

- **Internal Photo:** Figure 2 shows the bottom view of the PCB Antenna inside the opened Stethoscope horn, and Figure 3 shows the connector side view of the PCB package inside the horn.



Figure 2 - Antenna Internal Photo - PCB Trace - Bottom View



Figure 3 - Antenna Internal Photo – Connector Side

- **Dimensions:** Approximately circular with a radius of 21 mm. See Figure 4 for details.

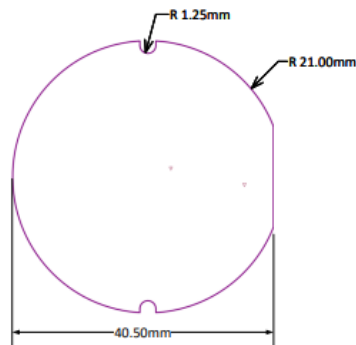


Figure 4 - Antenna Dimensions

- **Gerbers:** Figure 5 presents the top and bottom views of the Antenna PCB as depicted in the Gerber files.

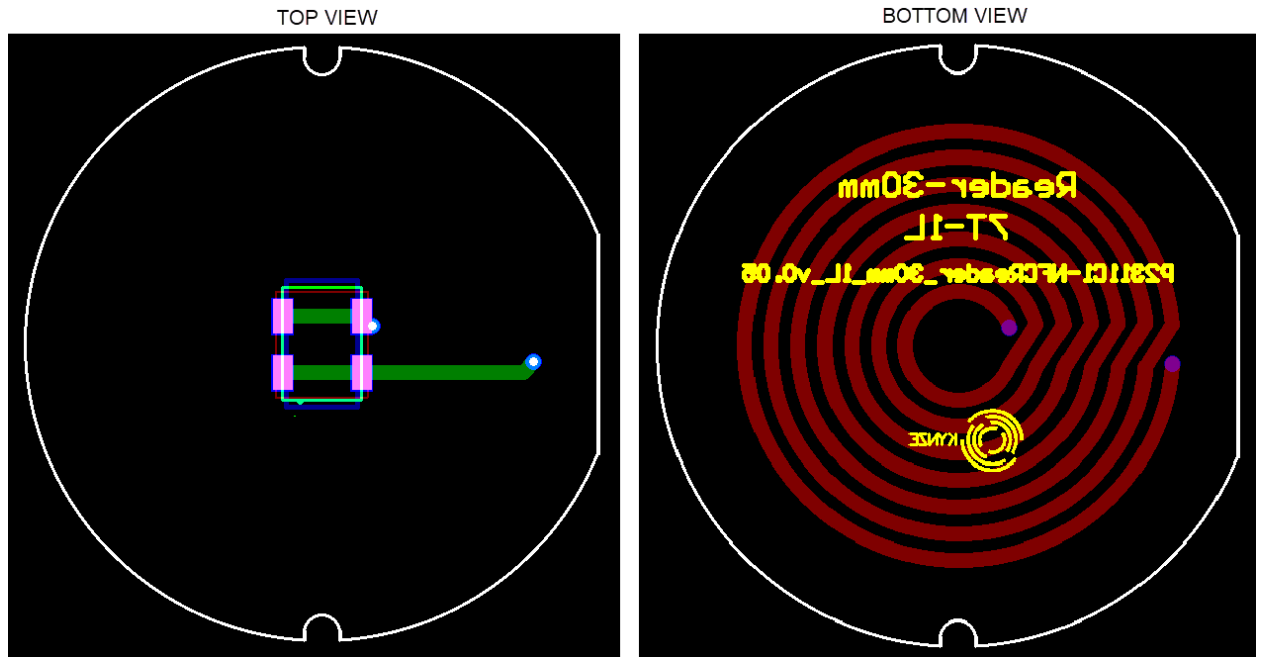


Figure 5 - Antenna Gerbers View

Radiated Measurement Justification

All compliance testing, including fundamental and spurious emissions, was performed using **radiated measurement methods**. As such, antenna gain and performance characteristics were inherently captured in the test results. Therefore, no separate antenna gain documentation is required to demonstrate compliance with FCC limits.

This approach aligns with the guidance provided in the **FCC TCB Workshop (October 2022)** and **KDB 353028 D01**, which allows for a justification statement in lieu of antenna gain documentation when radiated measurements are used exclusively.